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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/877,370	06/07/2001	Firoz Kanchwalla	INFO-P009 1777	
7590 10/30/2003			EXAMINER	
WAGNER, MURABITO & HAO LLP			RONES, CHARLES	
Third Floor Two North Market Street			ART UNIT	PAPER NUMBER
San Jose, CA			2175	
			DATE MAILED: 10/30/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

		Application No.	Applicant(s)			
		09/877,370	KANCHWALLA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Charles L. Rones	2175			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	correspondence address			
THE I - External after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)🛛	Responsive to communication(s) filed on 100	<u> October 2003</u> .				
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4)🖂	Claim(s) 1-22 is/are pending in the application	<b>l.</b>				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-22</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
·	The specification is objected to by the Examine					
10) 🔲 ¯	The drawing(s) filed on is/are: a)□ accep	oted or b)☐ objected to by the Exa	miner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority u	nder 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prior application from the International Bursee the attached detailed Office action for a list.	reau (PCT Rule 17.2(a)).	-			
	cknowledgment is made of a claim for domestic	·				
	☐ The translation of the foreign language pro		,			
	Acknowledgment is made of a claim for domesti	• •				
Attachment	(s)					
2)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			
S. Patent and Tr TO-326 (Rev		tion Summary	Part of Paper No. 7			

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#### **DETAILED ACTION**

#### **Amendment**

The amendment timely filed on October 10, 2003 has been entered.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Papierniak et al. (U.S. Patent No.6,151,601) in view of Bello et al. (U.S. Patent No. 6,477,525).

As to claims 1 and 15, <u>Papierniak et al.</u> teaches a computer implemented method for transporting data in a data warehousing application (see Abstract; see column 1, lines 9-13), comprising the steps of:

a) extracting data from at least one source containing data having a standard data structure (see Fig. 9; see column 4, lines 56-60; also see column 19, lines 26-27);

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b) translating said data to form translated data containing meaningful business terms (see column 4, lines 54-60);

- c) loading said translated data wherein said translated data is received analytic business components; (see Fig. 10, element 346; also see column 19, lines 27-34);
- d) processing said translated data to obtain data having a common structure (see column 13, lines 64-67; see column 19, lines 20-25; also see column 20, lines 25-31; where "common structure" is read on "consistent data");
- e) transforming said data having a common structure into a format suitable for loading into a data warehouse (see column 22, lines 41-44; also see column 25, lines 8-9); and
  - f) storing the data transformed in step e) (see column 5, lines 2-7).

Papierniak et al. does not expressly teach staging area.

Bello et al. teaches staging area (see column 34, lines 54-62; Fig. 22; where "staging" is read on "area where normalizing or denormalizing takes place, further, data transformation wherein the data is parsed analyzed, validated, and organized before storing into the warehouse is deemed to be perform staging").

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Papierniak et al.</u> to include a staging area.

It would have obvious to a person having ordinary skill in the art at the time the invention was made to modified <u>Papierniak et al.</u> by the teachings of <u>Bello et al.</u>,

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because having a staging area would enable the business information to be retrieved faster and in an efficient manner (see <u>Bello et al.</u>, column 5, lines 3-6).

As to claims 2 and 16, <u>Papierniak et al</u>. as modified teaches a method, wherein step b) further comprises performing joins in said data (see column 26, lines 6-10).

As to claims 3 and 17, <u>Papierniak et al.</u> as modified teaches a method, wherein step b) further comprises presenting source fields of said data in a form that is understandable to a user (see column 3, lines 9; where "understandable to the user" is read on "general marketing terms").

As to claim 4, <u>Papierniak et al</u>. as modified teaches a method, wherein said at least one analytic business component encapsulates extraction logic as data is moved from said data source (see Fig. 10, element 330; also see column 19, lines 13-20).

As to claims 5 and 18, <u>Papierniak et al</u>. as modified teaches a method, wherein step c) further comprises:

- c2) joining tables from said translated data (see column 26, lines 6-10); and
- c4) cleansing said translated data (see column 25, lines 11-13; where "cleansing" is read on "scrubbing").

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<u>Papiemiak et al.</u> as modified does not expressly teach denormalizing or normalizing at least some of said translated data.

Bello et al. teaches denormalizing or normalizing at least some of said translated data (see column 34, lines 54-62).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Papierniak et al.</u> to include denormalizing or normalizing at least some of said translated data.

It would have obvious to a person having ordinary skill in the art at the time the invention was made to modified <u>Papierniak et al.</u> by the teachings of <u>Bello et al.</u>, because having a staging area would enable the business information to be retrieved faster and in an efficient manner (see <u>Bello et al.</u>, column 5, lines 3-6)

As to claim 6, <u>Papierniak et al</u>. as modified teaches a method, wherein step d) further comprises converting source-specific terminology into analytic data interface terminology (see Abstract; see column 3, lines 7-10; also see column 20, lines 25-31).

As to claims 7 and 20, <u>Papierniak et al.</u> as modified teaches a method, wherein step d) further comprises performing source specific configuration by setting data indicators and choosing a set of rows that will be put into said data warehouse (see Fig. 22, element 430; see column 25, lines 58-67).

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As to claims 8 and 19, <u>Papierniak et al</u>. as modified teaches a method, wherein step d) further comprises

- d2) providing a common way to flag a record to be deleted (see column 14, lines 59-62; also see column 15, lines 40-43); and
- d3) performing data type conversions (see Abstract; see Fig. 10, element 300; also see column 17, lines 60-65).

<u>Papierniak et al</u>. does not expressly teach d1) combining extract-specific staging area objects.

Bello et al. teaches staging area objects. (see column 34, lines 54-62).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Papierniak et al.</u> to include combining extract-specific staging area objects.

It would have obvious to a person having ordinary skill in the art at the time the invention was made to modified <u>Papierniak et al.</u> by the teachings of <u>Bello et al.</u>, because by having a extract-specific staging area objects, enables the business information to be retrieved faster and in an efficient manner (see <u>Bello et al.</u>, column 5, lines 3-6).

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As to claim 9, <u>Papierniak et al</u>. as modified teaches a method, wherein said data type conversion is performed by publishing the structure of each field and converting said data type using a consistent approach (see column 13, lines 64-67; also see column 20, lines 25-31).

As to claims 10 and 21, <u>Papierniak et al</u>. as modified teaches a method, wherein step e) further comprises cleaning data by enforcing commonalties in dates, names and other data types (see column 2, lines 36-39; also see column 3, lines 19-23; where "enforcing commonalities" is read on "synchronization").

As to claims 11 and 22, <u>Papierniak et al</u>. as modified teaches a method, wherein step e) further comprises e1) consolidating business concepts across an entire value change into integrated structures that are suitable for querying and reporting (see column 3, line 65 through column 4, line 11; also see column 19, lines 37-39); and

<u>Papierniak et al.</u> does not expressly teach e2) normalizing source definition into a single common definition.

Bello et al. teaches normalizing source definition into a single common definition. (see column 35, line 51 through column 36 line 10; where "source definition into a single common definition" is read on "avoid duplication").

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Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Papierniak et al.</u> to include normalizing source definition into a single common definition.

It would have obvious to a person having ordinary skill in the art at the time the invention was made to modified <u>Papierniak et al.</u> by the teachings of <u>Bello et al.</u>, because by normalizing source definition into a single common definition, enables the business information to be retrieved faster and in an efficient manner (see <u>Bello et al.</u>, column 5, lines 3-6).

As to claim 12, <u>Papierniak et al.</u> teaches a system for transporting data to a data warehouse comprising:

at least one analytic business component coupled to a data source (see Fig. 9 and Fig.10) and coupled to said at least one staging area (see column 6, lines 11-14), said analytic business component for translating operational data (see column 14, lines 4-9) from said data source into translated data containing meaningful business terms wherein said translated data is received analytic business components (see column 3, lines 6-9);

at least one source adapter coupled to said at least one staging area for processing said translated data to obtain data having a common structure (see column 5, line 56 through column 6, line 10); and

an analytic data interface coupled to said source adapter (see Fig. 6, element S10; also see column 14, lines 4-7) and adapted to receive said data having a common

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structure (see column 13, line 64 through column 14, line 3), said analytic data interface transforming data for loading into a data warehouse (see column 17, lines 60-65).

<u>Papierniak et al.</u> does not expressly teach at least one staging area, said at least one staging area adapted to store data.

Bello et al. teaches at least one staging area (element 110), said at least one staging area adapted to store data. (see Fig. 1, element 110; also see column 6, lines 18-20).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Papierniak et al.</u> to include at least one staging area, said at least one staging area adapted to store data.

It would have obvious to a person having ordinary skill in the art at the time the invention was made to modified <u>Papierniak et al.</u> by the teachings of <u>Bello et al.</u>, because having a staging area would enable the business information to be retrieved faster and in an efficient manner (see <u>Bello et al.</u>, column 5, lines 3-6)

As to claim 13, <u>Papierniak et al</u>. as modified teaches a method, wherein said at least one staging area is one or more target in a warehouse designer that includes staging area tables (see Fig. 18; see column 5, lines 25-41; also see column 25, lines 41-57).

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As to claim 14, <u>Papierniak et al.</u> as modified teaches a method, wherein said at least one analytic business component is source-specific and wherein said at least one analytic business component includes at least one maplet in a warehouse designer (see column 23, lines 10-17; where "maplet" is read on "design templates").

### Response to Arguments

Applicant's arguments filed October 10, 2003 have been fully considered but they are not persuasive.

Applicant primarily argues that Papierniak does not disclose having a "<u>wherein</u> said translated data is received analytic business components."

In response, Examiner maintains that Papierniak discloses such wherein Papierniak discloses where the translated data is received from business sources deemed to be analytic business components (warehouse).

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles L. Rones whose telephone number is (703-306-3030. The examiner can normally be reached on Mondays – Fridays from Monday-Thursday 8am-4pm pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici, can be reached on (703-305-3830. The fax numbers of the group is (703) 746-7239.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-9600.

Charles L. Rones Primary Examiner Art Unit 2175

harles Kones

October 29, 2003